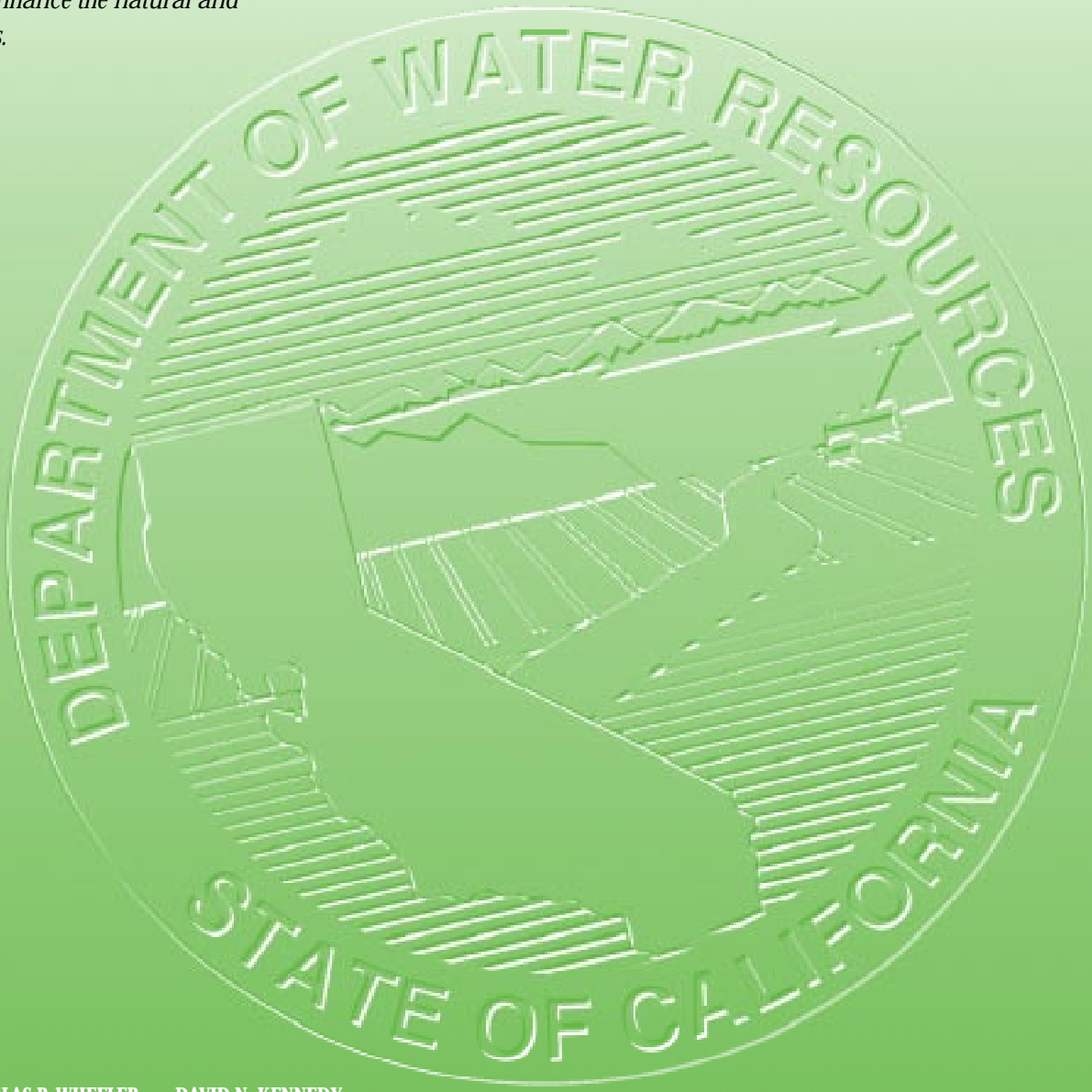


California Department of
Water Resources' Mission...

*To manage the water of California, in cooperation
with other agencies, to benefit the state's people and
protect, restore and enhance the natural and
human environments.*

The North Bay Aqueduct



PETE WILSON Governor State of California	DOUGLAS P. WHEELER Secretary for Resources The Resources Agency	DAVID N. KENNEDY Director Department of Water Resources
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The Delivery System

At the Barker Slough Pumping Plant located a few miles north of Rio Vista, North Bay Aqueduct water begins its journey westward through a six-foot diameter pipeline to the Cordelia Pumping Plant Forebay. Water is delivered to Travis Air Force Base and to the Solano County communities of Fairfield, Suisun City and Vacaville through two turnouts along the way. (A turnout is a structure through which water is diverted from the pipeline.)



Barker Slough Pumping Plant

The Cordelia Pumping Plant has three separate discharge pipelines. Benicia and Vallejo are each served by a separate pipeline; the third pipeline carries water to the Cordelia Surge Tank, a 44.5-foot high, 15-foot diameter structure which is easily seen



Cordelia Pumping Plant



Cordelia Forebay and Pumping Plant

from Interstate 80 near the turnoff for Highway 12 North. (The surge tank protects the pipeline from damage caused by the large pressure changes that can occur when valves in the pipeline are rapidly opened or closed.) Water continues from the surge tank through a four-mile pipeline to the Napa Turnout Reservoir, a 22-acre-foot (7,168,000 gallon) storage tank which is the western terminus of the North Bay Aqueduct.

Two turnouts at the reservoir deliver water to the American Canyon Water District and to the City of Napa, which in turn uses its facilities to deliver water to Yountville and Calistoga in Napa County.

The North Bay Aqueduct will ultimately deliver 67,000 acre-feet of water a year - 42,000 acre-feet to the Solano County Flood Control and Water Conservation District and 25,000 acre-feet to the Napa County Flood Control and Water Conservation District.

North Bay Aqueduct water provides a supplemental supply for the area. The major sources of water for the area are local and federal reservoirs, and groundwater basins.



North Bay Aqueduct under construction in 1985.

Statistics

	Capacity of Pumping Plant (cubic feet per second)	Design Dynamic Head*
Barker Slough	228	137
Cordelia		
Napa	52.4	384
Benicia	32.6	279
Vallejo	53	128
	138	

(one cubic foot equals 7.48 gallons)
*Lift including force required to move water against losses due to friction

Information

Information about the State Water Project and other Department of Water Resources programs may be obtained by calling 1-800-272-8869 (toll free) or writing to the Department at:
P.O. Box 942836
Sacramento, CA 94236-0001

Our World Wide Web information site address is <http://wwwdwr.water.ca.gov>

If you need this publication in an alternate form, contact the Office of Water Education at 1-800-272-8869.